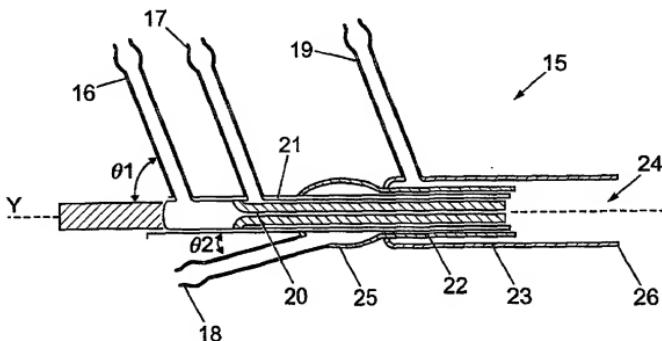




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : C03B 19/14, F23D 14/32, 14/22	A1	(11) International Publication Number: WO 00/46162 (43) International Publication Date: 10 August 2000 (10.08.00)
(21) International Application Number: PCT/GB00/00332		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
(22) International Filing Date: 7 February 2000 (07.02.00)		
(30) Priority Data: 9902476.2 5 February 1999 (05.02.99) GB		
(71) Applicant (for all designated States except US): THE UNIVERSITY CITY COURT OF THE UNIVERSITY OF GLASGOW [GB/GB]; University Avenue, Glasgow G12 8QQ (GB).		
(72) Inventors; and		
(75) Inventors/Applicants (for US only): DA SILVA MARQUES, Paulo, Vicente [PT/PT]; R. Da Vitoria, 405, P-4050 Porto (PT). BONAR, James, Ronald [GB/GB]; 47 Brodie Park Avenue, Paisley PA2 6JA (GB). AITCHISON, James, Stewart [GB/GB]; 127 Downhill Street, Glasgow G12 9DN (GB).		Published With international search report.
(74) Agent: MURGITROYD & COMPANY; 373 Scotland Street, Glasgow G5 8QA (GB).		

(54) Title: BURNER FOR FABRICATING AEROSOL DOPED WAVEGUIDES



(57) Abstract

A burner for fabricating aerosol doped planar waveguides which includes a plurality of inlet ports (16, 17, 18, 19) each connected to a respective torch conduit (20, 21, 22, 23); said torch conduit connecting its respective inlet feed to a gas mixing region (24); wherein a gas expansion chamber (25) is provided between at least one of said inlet ports (16, 17, 18, 19) and said gas mixing region (24).